

APPENDIX 1-E

Letter that MWDOC sent to notify Metropolitan Water District of Southern California of the amount of water MWDOC, on behalf of its member agencies, wishes to purchase over the next 25 year



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City of Seal Beach
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City of Tustin
City of Westminster
Yorba Linda Water District

June 21, 2005

Stephen N. Arakawa
Manager, Water Resources Management
Metropolitan Water District of Southern California
P.O. Box 54153
Los Angeles, CA 90054

Dear Mr. Arakawa:

The Municipal Water District of Orange County (MWDOC) is updating its 2005 Regional Urban Water Management Plan (RUWMP). According to California Water Code 10631(k):

- Urban water suppliers are required to inform the wholesale agencies from which they receive supplies on the amount of water required for the next 25 years, and
- Wholesale agencies are required to identify and quantify those sources of water.

This letter is to inform you of the amount of water MWDOC will require from Metropolitan Water District of Southern California over the next 25 years and, in return, we request that Metropolitan provide written information that identifies and quantifies the sources of water available to MWDOC for the same time period.

The following tables show the projected MWDOC demand for imported water provided by Metropolitan in 5-year increments for the next 25 years, under normal weather conditions:

Table 1 - MWDOC Imported Demand Projection for Retail Consumption - AFY					
Wholesaler	2010	2015	2020	2025	2030
Metropolitan Water District of Southern California	223,661	220,913	232,830	234,253	236,245

Table 2 - MWDOC Imported Demand Projection for GW Replenishment - AFY					
Wholesaler	2010	2015	2020	2025	2030
Metropolitan Water District of Southern California	57,739	58,734	56,685	57,048	50,700

Table 3 - MWDOC Imported Demand Projection for Seawater Barrier - AFY					
Wholesaler	2010	2015	2020	2025	2030
Metropolitan Water District of Southern California	4,000	0	0	0	0

The projected demand on Metropolitan is based on the following information:

- **Retail Demand Projections** – MWDOC requested each of its 30 member agencies project retail demand for the next 25 years. Methodologies used for such projections vary from agency to agency, but all projections reflect an in-depth knowledge of the agencies' service areas. In most cases, the projections are closely correlated to the general plans prepared by the County of Orange or cities within MWDOC's service area.
- **Local Supplies Projection** – MWDOC also collected information on the development of local supplies for the next 25 years. MWDOC worked directly with the Orange County Water District for the projection of groundwater production from the Lower Santa Ana River Basin, which accounts for approximately 75% of local supplies. Other local supplies such as recycled water, surface water, and groundwater production from other basins within Orange County are provided by MWDOC member agencies.
- **Expected Delivery of Metropolitan Replenishment Supply** – MWDOC expects to request delivery of 65,000 acre-feet per year in replenishment supply from Metropolitan in the future. We realize that Metropolitan will not always be able to deliver this amount of replenishment supply. MWDOC worked with Metropolitan staff to derive the average replenishment supply available to MWDOC based on forecasts of Metropolitan's imported supplies and regional demands. The average replenishment supply available is reported as the demand for replenishment delivery from Metropolitan in Table 2 of this letter. The data in Table 2 is consistent with our projection of local groundwater supply, which partially depends on the projected replenishment supply from Metropolitan. If conditions change in the future allowing Metropolitan to provide the full 65,000 acre-feet per year in requested replenishment, then our projections of local groundwater supply will increase.

As mentioned earlier, the same section of the California Water Code (10631(k)) requires that wholesale agencies provide urban water suppliers information that identifies and quantifies the existing and planned sources of water available for the same period of time and under various water-year types. This information is to be included in the water supplier's Regional Urban Water Management Plan. To complete our RUWMP in accordance with the requirements set forth by law, we request the following information from Metropolitan:

- Identify and quantify the sources of water available to MWDOC
- Describe the reliability of the identified sources of water in accordance with California Water Code Section 10631 (c) – *“Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following:*

- (1) An average water year*
- (2) A single dry water year*
- (3) Multiple dry water years*

For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality, or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.”

Thank you in advance for providing this information. If possible, may we have your preliminary response by Wednesday, July 6.

Updating urban water management plans is a statewide effort, one that is crucial to ensuring the sustainability of California's future. We look forward to working with you on this effort. If you have any questions, please contact me at 714-593-5026 or I-Wen Yang of my staff at 949-232-3629 or iyang@mwdoc.com.

Sincerely,



Kevin P. Hunt
General Manager

cc: Brandon Goshi and Mike Hurley, Metropolitan Water District of Southern California
Matt Stone, Deven Upadhyay and I-Wen Yang, MWDOC

I-Wen Yang

From: I-Wen Yang
Sent: Thursday, July 07, 2005 4:49 PM
To: 'Teitz,Warren A'
Cc: 'Sarakawa@mwdh2o.com'; 'Goshi,Brandon J'; 'Hurley,Michael B'; Kevin P. Hunt; Matt Stone; Karl Seckel; Deven Upadhyay; I-Wen Yang
Subject: Ruban Water Management Plan Data Coordination

Dear Warren:

On June 28, 2005, Municipal Water District of County (MWDOC) received a request from your agency for a list of information to facilitate the formal data exchange pursuant to Article 2, Section (k) of the Urban Water Management Planning act.

In response to the request, I have attached a file containing the following information for MWDOC in five-year intervals from 2005 to 2030:

1. Retail municipal and industrial demands for normal, dry and multiple dry years;
2. Total agricultural demands for normal, dry and multiple dry years;
3. Demands for Metropolitan supplies for normal, dry and multiple dry years, for the following:
 - a. Basic demands (full service Tier 1 and Tier 2 excluding seawater barrier)
 - b. Seawater barrier demands
 - c. Interim Agricultural Water Program demands
 - d. Replenishment water demands

The projections are done based on the following information:

- Retail Demand Projections – MWDOC requested 25-year retail demand projections from each of its 30 member agencies. Methodologies and assumptions underlying these projections vary from agency to agency, but all projections reflect an in-depth knowledge of the agencies' service areas. In most cases, the projections are closely correlated to the general plans prepared by the County of Orange or cities within MWDOC's service area.
- Local Supply Projection – MWDOC also collected information on the development of local supplies for the next 25 years. Local supplies such as recycled water, surface water, and groundwater production from some smaller basins within Orange County are provided by MWDOC member agencies. MWDOC worked directly with the Orange County Water District (OCWD) for the projection of groundwater production from the Lower Santa Ana River Basin, which accounts for approximately 75% of local supplies. Variables considered in estimating the production from this basin include:
 - a. Santa Ana River (SAR) Flow – SAR flows affect our ability to produce groundwater supplies from the basin. The flow forecast used is based on the estimate of municipal discharge done by Santa Ana Watershed Project Authority in March 2004.
 - b. Incidental recharge
 - c. Recycle supplies for replenishment – we assume the Groundwater Replenishment System (GWRS) will provide 67,000 AF of annual replenishment supplies in 2007-08 increasing to 72,000 AF by 2008-09.
 - d. Metropolitan's forecast of replenishment supply to the Lower Santa Ana River Basin – MWDOC expects to request delivery of 65,000 acre-feet per year in replenishment supply from Metropolitan in the future. We realize that Metropolitan will not always be able to

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deliver this amount of replenishment supply. MWDOC worked with Metropolitan staff to derive the average replenishment supply available to MWDOC based on forecasts of Metropolitan's imported supplies and regional demands. The average replenishment supply available is reported as the demand for replenishment delivery from Metropolitan as shown in the enclosed file. The data shown as the demand for Metropolitan's replenishment supply is consistent with our projection of local groundwater supply from this basin, which partially depends on the projected replenishment supply from Metropolitan. If conditions change in the future allowing Metropolitan to provide the full 65,000 acre-feet per year in requested replenishment, then our projections of local groundwater supply will increase.

If you have any questions regarding the data provided please call me at 949-232-3629.

Sincerely,

I-Wen Yang
Principal Engineer

949-232-3629
iyang@mwdoc.com

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